

Title (en)

LIGHTING MODULE

Title (de)

BELEUCHTUNGSMODUL

Title (fr)

MODULE D' ECLAIRAGE

Publication

**EP 2347457 B1 20160113 (EN)**

Application

**EP 09814942 A 20090724**

Priority

- US 2009051662 W 20090724
- US 21135108 A 20080916

Abstract (en)

[origin: US2010067229A1] A lighting module comprising a base panel and a plurality of light-emitting diode (LED) chips attached directly to the base panel. The LED chips are in electrical communication with conductive traces on the base panel, which deliver a current to the LED chips. Various embodiments of this generally described lighting module are also presented. Additionally, methods of preparing such a lighting module, and system components of the lighting module are presented.

IPC 1-7

**F21Y 101/02**

IPC 8 full level

**H01L 33/62** (2010.01); **F21K 99/00** (2016.01); **H05B 44/00** (2022.01); **F21Y 105/00** (2016.01); **H01L 33/58** (2010.01); **H01L 33/60** (2010.01)

CPC (source: EP US)

**F21K 9/00** (2013.01 - EP US); **H05B 45/345** (2020.01 - EP US); **F21Y 2105/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US);  
**H01L 33/58** (2013.01 - EP US); **H01L 33/60** (2013.01 - EP US); **H01L 2224/48091** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**US 2010067229 A1 20100318; US 8183585 B2 20120522;** CA 2735508 A1 20100325; CA 2735508 C 20170509; CN 102160203 A 20110817;  
CN 102160203 B 20160427; EP 2347457 A1 20110727; EP 2347457 A4 20130123; EP 2347457 B1 20160113; JP 2012503332 A 20120202;  
WO 2010033301 A1 20100325

DOCDB simple family (application)

**US 21135108 A 20080916;** CA 2735508 A 20090724; CN 200980136247 A 20090724; EP 09814942 A 20090724; JP 2011527852 A 20090724;  
US 2009051662 W 20090724